

**DR. BRUSLY SOLOMON A**

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RESEARCH INTERESTS

Natural convection and phase change heat transfer enhancement using Ferrofluids, enhancement of thermo-physical properties of Ferrofluids for heat transfer, cooling of compact electronics using active and passive devices, Mathematical modelling of passive heat transfer devices and energy storage, electronic cooling using textured surfaces

EXPERIENCE

Associate Professor, Mechanical Engineering, Karunya Institute of Technology and Sciences, India, 2018 - present
UP Postdoctoral Fellow, University of Pretoria, Pretoria, South Africa, 2015-17
Assistant Professor, Mechanical Engineering, Karunya Institute of Technology and Sciences, India, 2015 - 18
Scientific Officer, Dean Research office, Karunya Institute of Technology and Sciences, Coimbatore, India, 2008 - 2015
Research Associate, Dean Research office, Karunya Institute of Technology and Sciences, Coimbatore, India, 2006 - 2008

RESEARCH PROFILES

1	Google Scholar Profile	Dr. Brusly Solomon - Google Scholar
2	Scopus Profile	Brusly Solomon, A. - Author details - Scopus Preview
3	Linkedin Profile	Dr. Brusly Solomon LinkedIn

PATENTS

1	Magnetically Assisted Heat Pipe for Thermal Control, Indian Patent Application No: 202041011073- Published
2	Anodized micro fins for enhanced heat transfer in heat pipes with ammonia as working fluid, Indian Patent Application No: 202041020927- Published
3	A friction stir welding device and the method involved thereof, Indian Patent Application No: 202041037266 - Published

RESEARCH PROJECTS

Sl.No	Title of the project	Funding Agency	Amount (Rs.)	Year
1	Development and Characterization of Anodized Heat Pipes for Electronic Cooling Applications	DST-SERB- India	23.18 Lakhs	2017- 20
2	Development of Flexible Heat Pipe for Space Applications	ISRO	17.76 Lakhs	ongoing

SUMMARY OF INTERNATIONAL JOURNAL & CONFERENCE PUBLICATIONS

Year	International Journal Publications	International Conference Publications	National Conference publications	Cumulative Impact Factor	Scopus Citations	Google Scholar Citations	h-index
2006 - 2023	47	17	3	151	1128	1408	20

GUEST EDITOR:

- Frontiers in Energy Research, IF: 2.746, www.frontiersin.org (Topic : Enhancing Heat Transfer by Using Nanofluid to Improve the Efficiency of Thermal Systems)
- Journal of Process Mechanical Engineering, IF:1.62 (Topic: Applications of nanofluids in heat transfer systems)

EDUCATION

Degree	Branch / Specialization	University	Class	Mode	Month & Year of Passing
Ph.D.,	Mechanical Engineering	Karunya University	Commendable	Part Time	July 2014
M.E.,	Thermal Engineering	Karunya University	First Class	Full Time	May 2006
B.E.,	Mechanical Engineering	Bharathiar University	First Class	Full Time	May 2004

TEACHING INTERESTS

Heat and Mass Transfer, Fluid Mechanics, Refrigeration and Air-conditioning systems, Computational Fluid Dynamics,

RESEARCH GUIDANCE

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	3	2
Master of Engineering - Master's Thesis advising	13	--